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## PATENT ABSTRACTS OF JAPAN

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**H02P 7/67**(21) Application number: **10376040**(71) Applicant: **RYUKI ENGINEERING:KK**(22) Date of filing: **18.12.98**(72) Inventor: **NISHIMURA AKIRA****(54) VARIABLE SPEED CAPACITY CONTROL DEVICE FOR PLURALITY OF MOTORS****(57) Abstract:**

**PROBLEM TO BE SOLVED:** To continuously control capacity by switching from an inverter operation circuit to a commercial operation circuit when the load capacity of a motor that is directly connected to a commercial power supply reaches the rated capacity of an inverter and operating remaining motors with a signal from a program controller to each contactor.

**SOLUTION:** Variable speed capacity control by an inverter INV and operation by a commercial operation circuit 8 are combined, and the control of a plurality of motors M1 and M2 by one inverter unit is instructed by a programmable (sequence) controller PLC for automatic control. When a load capacity reaches the rated capacity of the inverter, the operation circuit of the motor M1 is switched from an inverter operation circuit 6 to the commercial operation circuit 8. Operation is allowed to continue without any shock and at the same time an inverter operation circuit 7 switches connection to another motor M2 for continuously controlling capacity. When the concentration of dust in the

tunnel of a dust sensor DS is low, a suction motor M1 is automatically operated. On the other hand, when the concentration is high, the suction motor M1 and a discharge motor M2 are automatically operated at low to high speeds.

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